

WHAT IS CLAIMED IS:

1. A cutting-oil coater comprising
a spray feed portion,
5 an oil storage portion for storing oil for generating spray,
an oil feed means for feeding oil inside the oil storage portion to the oil
spray feed portion, and
a spray conveying passage for conveying the oil spray inside the spray
feed portion to the outside of the spray feed portion,
10 wherein the spray feed portion and the oil storage portion are formed
separately from each other and can be remote arranged in different positions
respectively, and the relative arrangement positions of the spray feed portion
and the oil storage portion can be adjusted.
- 15 2. The cutting-oil coater according to claim 1, further comprising a
return passage for allowing the oil inside the spray feed portion to return to
the oil storage portion.
- 20 3. The cutting-oil coater according to claim 2, wherein the pressure
inside the spray feed portion is higher than the pressure inside the oil storage
portion, and the oil inside the return passage is conveyed to the oil storage
portion due to the difference between the pressure inside the spray feed
portion and the pressure inside the oil storage portion.
- 25 4. The cutting-oil coater according to claim 2, wherein an inlet of the
return passage in the spray feed portion is an orifice with a narrower
diameter with respect to the return passage.
- 30 5. The cutting-oil coater according to claim 2, wherein the inlet of the
return passage has a narrower diameter portion whose cross-sectional area is
in the range from 0.05 mm^2 to 0.15 mm^2 .
- 35 6. The cutting-oil coater according to claim 2, wherein a cross-sectional
area of the inlet of the return passage is variable.
7. A cutting device comprising a cutting oil coater according to claim 1.